No.



9500068

THE UNITED STANTES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Gebero Zaden B.H.

Decrees, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW in such cases made and provided have been complied with, and the TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR APORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL Y VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT, 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Estica'

In Testimony Thereof I have hereunto set my hand and caused the seal of the Hant Nation Transcript Prixe to be affixed at the City of Washington, D.C. this twenty-eight day of Way in the year of our Lord one thousand

nine hundred and ninely-nine.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and raintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, DIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055). Washington, 20250.

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE Application is required in order Application is required in order determine it a plant variety protect certificate is to be issued (7 U.S.C. 24: Information is held confidential ucertificate is issued (7 U.S.C. 2426). APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on reverse) 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) TEMPORARY DESIGNATION OR EXPERIMENTAL NO. 3. VARIETY NAME CEBECO ZADEN B.V. **ESTICA** 4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) 5. PHONE (Include area code) FOR OFFICIAL USE ONLY P.O.Box 10000. PYPO NUMBER 5250 GA Vlijmen - Holland +31 4108 88555 9500068 6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical) Triticum aestivum L. Graminace 8. CROP KIND NAME (Common Name) Filing and Examination Fee: DATE OF DETERMINATION Winterwheat harvest 1978 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, pa Corporation Certificate Fee h lette 11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF INCORPORATION Vlijmen - Holland · 01011993 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dropped 19 bec1948-AAA pur letter of 12 oct 1928 PHONE (Include area code): 503_369 820, First Street Halsey, Oregon 97348 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse) X Exhibit A, Origin and Breeding History of the Variety. Exhibit B, Novelty Statement. Exhibit C. Objective Description of Variety. \square Exhibit D. Additional Description of Variety. Exhibit E, Statement of the Basis of Applicant's Ownership. Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States." 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(e) of the Plant Variety Protection Act.) YES (If "YES," answer items 16 and 17 below) NO (If "NO," skip to item 18 below) 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? X YES FOUNDATION REGISTERED CERTIFIED 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? YES (If "YES," through Plant Variety Protection Act Patent Act. Give date: 19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? October 1991 WUK - per FAX Jan 6,1996 MAN 1 Sept AAA(per letter) 13 Jun 1995 [U.S.] YES (If "YES," give names of countries and dates) 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT [Owner(s)] CAPACITY OR TITLE Ir.B.Scholte Variety Registr. Departm. October 10, 1994 SIGNATURE OF APPLICANT (Chine (s)) CAPACITY OR TITLE

Viijmen, Holland

9] Edition of FORM LS-470, 3-86, is obsolete.

EXHIBIT A

Origin and Breeding History of ESTICA (Triticum aestivum)

Origin:

Crossing: Arminda x Virtue in 1978 on our breeding station in Lelystad, Holland.

Breeding history:

Single Plant Selection in 1980. Reselection in 1982, 1985, 1986 and 1987 on:

- * resistance to the most important diseases
- * winterhardiness
- * strawstiffness
- * yield
- * quality

Maintenance:

Line selection on our breeding station in Lelystad; small multiplication for breedersseed; production of prebasicseed.

Uniformity and Stability:

Since 1987 ESTICA has been observed to be stable and uniform.

EXHIBIT B

Novelty statement

ESTICA (Triticum aestivum) is an unique variety that is easily distinguisable from all other wheat varieties. Statistical comparison of ESTICA to other varieties is summarized in table 1.

Table 1:

140	10 1.						
			var	ieties	variety	unilar	FAX
Char	racter	ESTICA	Arminda	0belisk	Ritmo	ugl 995 Tessa	1991 1991
I.	Days after 1/5 to	40*	39.25	37.75*	39.50	39.00	• • •
	last flower	•					
	st. deviation	6.65					
٠	LSD 5%	1.71					
	LSD 1%	2.39					
II.	Plantheight (cm)	91.50*	95.25	101.00*	*88.00	90.25	
	st. deviation	7.08					
	LSD 5%	9.24					-
÷	LSD 1%	12.96		-			
III.	Leafsize (mm)	243.50*	214.50*	241.25	239.00	246.25	
	st. deviation	26.46					
	LSD 5%	28.45					
	LSD 1%	39.88					
IV.	Flagleaf length (mm)	218.50*	176.50*	212.00 1	80.75** 1	90.00*	
•	st. deviation	25.03				•	
	LSD 5%	25.18					
	LSD 1%	35.30					



ANNEX to EXHIBIT B

<u>Characteristic</u>	ESTICA	Arminda	<u>Obelisk</u>	RITMO	<u>Tessa</u>
* Flag leaf length (m)				
- 1992:	202	169	196.5	1.61.5	175
coeff.variation	9.79				
LSP 52	15.86				
LSD 12	26.31				
- 1993:	235	184	227.5	200	205
cooff.variation LSD 5%	10.68				· · · · · · · · · · · · · · · · · · ·
LSD 1X	20.38 33.80				
	14				at .
* Flag leaf width (mm	! :				
- 1992:	17.5	18.5	18.5	18.0	18.5
coeff.variation	5.38				garan er ga
LSD 5% LSD 1%	1.76				
- 1993:	2.91 20.5	17.0	01 6	ሳለ ሮ	00 4
coeff.variation	8.66	17.0	21.5	20.5	20.5
LSD 5%	2.15	•			
LSD 1%	3.57				
* Stem length (cm)	.				
- 1992:	95	67 5	0.0	00	0.1
coeff. variation	7.09	97.5	98	92	81.
LSD 5%	9.17			•	
LSD 1%	15.2				
- 1993:	88	93	104	84	94.5
coeff.variation	7.99			- •	
LSD 5%	9.45			* * *	
LSD 1%	15.68			1.	* *
* Ear length (mm)				1.	
- 1992:	90	97.5	112.5	97.5	100
coeff.variation	7.93				400
LSD 5%	11.19				
LSD 1%	18.56				
~ 1993:	105	87.5	95.0	89.0	92.5
coeff.variation	8.53				
LSD 5%	7.16				
LSD 1%	11.87				
* Ear width (mm)					
- 1992:	10.5	10.0	11.5	12	11.5
coeff.variation	7.48			•	
LSD 5%	1.64	•			
LSD 1%	2.72	11 -	11 0	10.0	10.5
- 1993: coeff.variation	12.5	11.5	11.0	13.0	12.5
LSD 5%	6.86 1.08				
LSD 1%	1.78	-			
2027	1,0				
	P				

FORM CR-470-5	A430 33TATE DEFA		FORM APPROVED, O	MB NO- 46-113742
(2·15·/3) L	AGRIZULTURAL Evestock, Poultry.	MARKETING SERVICE Crain & Sood F	livision	EXHIBIT C
vert 1	gricultural Librar OBJECTIVE DESC	RIPTION OF VARIE	MD 20705 TY	
HATRUCTIONS: See Reverse,	WHEAT (T	RITICUM SPP.)		
CEBECO ZADEN B.V.	The state of the s		FOR OFFICIAL USE	ONLY
AUDRESS (Street and No. or R.F.D. No.,	City, Stale, and ZIP Gode)		95000	
P.O.Box 10000	•	and Andreas stopped pro-	VARIETY HAME OR TEMPOR	X TO V
5250 GA Vlijmen - Ho	lland		ESTICA	-
Place the appropriate number that des	cribes the varietal charact	et of this variety in th	r boxes below.	
Place a zero in tiest hoz (6.8. 0 6 1	or 0 9) when number	in either 90 or lenn o	O or lens.	~ ~ × × × × × × × × × × × × × × × × × ×
7				
	EMMER 4 - SPELT	5 a polisk – 6 s pou	LARD 7 CLUB	
2. TYPE: 2. 1 * SPRING 2 * WINTER 3 *	OTHER (Specily)	1 = SOFT 2 = HARD	3 = OTHER (Specily)	
21.	IER (Specify)			Action or market but All
. SEASON - NUMBER OF DAYS FROM E	MERCENCE TO			utanta
1 9 8 FIRST FLOWERING		2 0 5 LAST	FLOWERING	
MATURITY (50% Flawering):		<u> </u>		
NO. OF DAYS BARLIER THAN	***************************************	. T = ARTHUR	2 = 8GOUT 3 = CHRIS	
0 3 HO. OF DAVE LATER THAN .	Ritmo	4 = L KMI41	5 THUGAINES 6 = LEEC	os
. PLANT HEIGHT (From sail level to top	al hadle	***************************************		
0 9 3 cw. High			•	
1 0 CM. TALLER THAN RITM	io.	1 = ARTHUR	2 = ECOUT 3 = CHRIS	
0 1 cm. shorter than Armi	nda	4 = LEMHI	5 = NUGAINES 6 = LEEC	95
PLANT COLOR AT BOOTING (See reve	*##}:	7. ANTHER COLOR.		
3 1 = YELLOW GREEN 2 = GREEN	3 = DLUE GAEKN	T- YELLOW	2 = PURPLE	
STEM;				- · · · · · ·
Anthocyanin: {= ABSGNT 2=1	PRESENT	Wazy bloom: I =	AGRENT 2 = PRESENT	
Hairiness of last interacte of rachis: 1 * ABSENT	2 = PRESENT ·	1 Internades: 1 = 1		
NO. OF NOOES (Originating from	s තරන්න මර්ගපත ජූදලැකල්)	CM. INTER	HODE LENGTH BETWEEN FLA	IG LEAF
AURICLES:	TV-6.54-344-4-14-14-14-14-14-14-14-14-14-14-14-14		DECOM	
Anthocyanin: 1 = ABSENT 2 = F	PRESERT	2 Hairinesa: 1 - 4	NBSENT 2 - PRESENT	
LEAF				
Fig. feat m 1 = ERECT 2 bouning singe: 3 = OTHER (Specif	- RECURVED	1 Plan leafe 1 = N	OTTWISTED 2 TWISTED	
Hairs of first leaf theath: = ABSEN		2 Waxy bloom of fle	is leaf shouth 1 = ABSENT	2 = PRESENT
5. MM. LEAF WIOTH (Fleat foul &	islow (leg test)	2 4 CM. LEAF	LENGTH (First last bolow lied	lead:

Complete Victoria	1 20.1922			950006
	AX 7 ÷ DENSE	A Section Section	Shaper 1 = va	PERING 2=STRAP 3=GLAVATE MER/Specky <u>pyramid/elips</u>
- 1 Awardaceur L	= Athleys 2 = Apigal	LY ARMLEYED		THEO
Color at Marwy	. 3 × вкоми — 6 ≈ вг	ом' Этенк Аск Ужот	4 x SCD HER (Specify):	
1 0 CM LENG			1 7 We wor	STATE OF THE STATE
IZ. CLUMES AY MAT		`		
Jacon Jacon	DRY (CA. Fam.) 2 + ME NO (CA. Fam.)	Chin 1 VO) high	S Augus 14 MV	ROW (CA. J. MAL) Z E MEDIUM (CA. J.S. MILL)
Sknulder law; 4 skeps: 4=50	WITHG 2 = DULIQUE	I = ROUNCED 6 = APICULATE	2 Best: 1=0875	
TE COLEOPTILE COL	· · · · · · · · · · · · · · · · · · ·		14, SEEDLMG ANTHO	TO THE PERSON NAMED IN COLUMN ASSET
2 1'= moirs 2	= REO J=PURPL€	·	2 LOADSENT	Z=PAESENT
IS. HYENRE PLANT			Process Contracts	and the second s
2 I = PROSTRATE	2 = SEMI-ERECY	3 = ERE	CT	
IL SEED:	,			
2 Shapes I sount	E 2=0VAL 3= ELL	IFTICAL.	Chech; I w Rous	IDED 2 = ANGULAR
2 Park: 1 = skap	У 2-меруун 3-го		· 📑	**************************************
Phenol sesculos			Break: 1 = Hor	COLLARD 7 = COLLARED
See Methicitore	I S I VÖRY I E FANK I E GROWN , S = BLA	Г 3≒1.Т. фидж СК	!	
3 Colon txanite	2 = AMBER 3 = RED	4 = ខុបកខម៉ែ <u>ដ</u>	. 5 S.OTHER (Specify)	
MH. LEHETH	· MH, WIC		GIL PER 100	# SCEDS
17. SEED CREASE:				
	LESS OF KERNEL WINOK			or less of Kernel Scoup
	less of Kernel 'Chail' 'As wide as Kernel 'Chail'			r less of Kernel 'Chris'
M. OISEASEI (4 = Not To	aped, In Susampelble, 2 a	Resistanti -		V CETE OL YENNER SEKKI.
O KARAN	- 2 LEAF RUST	- 25.72	2 STAPE BUST	Lopse shut
2 DOWNERY HILDER	EVHT .		O OTHER (Species)	9 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
	ed. [× Svecaptible, 2 = #.			***
SAWFLY	· O APHRO (Byev)		O GREEN HOE .	CEREAL LEAF BEETLE,
O THER (Spicific	HE	reirau er o		
• •	, 510	RACES:		· <u></u>
			B E	F
L HORATE YHCH VAN	ETY MOST CLOSELY MESS	HELES YHAT SU	ENITYFO.	
WHACTER	HAME OF VAR	ETY	CHARACYER	HAME OF VARIETY
Plant titlering	Arminda/gotz		Seed size	Arminda/Gotz
Leal color	Arminda/Gotz Arminda		Seed shape	Arminda/Gotz '
Leaf carriage	Arminda/Gotz		Cuteopalle elengation Seeding physicalata	Arminda/Gotz
		INSTRUCT	rions	'Arminda/Gotz
EHERAL: The following D	shikutioos may be used as a			and procedures for complains this form:
(n) L.V. Briggle and Bulletia 1278, Un	L. P. Reita, 1963, Clarville fied States Department of A	erios of Tritican ;	Section and These Verieties	and procedures for complains this form: Groves in the United States. Technical



9500do8

QUALITY DATA ON ESTICA, WINTER WHEAT (9500068)

	mix	sds	рга	brv	zel	hfn
Variety:						
ESTICA	199	55	12.3	682	31	253
Ritmo	202	62	12.0	674	32	353
						•
Bussard	238	80	13.9	725	59	377
Tambor	218	67	13.7	702	42	366
Herzog	205	58	13.3	675	39	328
Contra	169	47	12.2	608	19	358
Vivant	190	50	11.6	670	27	359
Bercy	212	64	12.0	671	34	289

mix sds

þга

mixograph
sedimentation
protein content (%) according to Abraham Laboratory
bread volume
zeleny value
falling number brv zel hfn

Oct. 12, 1998 BS/MW

Exhibit E ESTICA Statement of the basis of ownership

1.	Does the applicant own all rights to the variety? If no, please explain.	Yesx	No
 .			
2.	ls the applicant (individual or company) a U.S. national or U.S. based company? If no, give country The Netherlands	Yes	No_x
3.	Is the applicant the original breeder? If no, please answer the following:	Yes×	No
	a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give country	Yes	No
	b. If original rights to variety were owned by a company: Is the original breeder a U.S. based company? If no, give country	Yes	No
Notes	Plant variety protection can be afforded only to variety owner meet the following criteria.	rs (not license	es) who
nation	the rights to the variety are owned by the original breeder, that per al, national of a UPOV member country, or national of a country tion to nationals of the U.S. for the same genus and species.	rson must be a which affords	u.S. similar
the co	the rights to the variety are owned by the company which employe mpany must be U.S. based, owned by nationals of a UPOV membals of a country which affords similar protection to nationals of the ecies.	er country, or	owned by
3. If t	he applicant is an owner who is not the original breeder, both the ant must meet the above criteria.	original breed	ler and the
The or Section	iginal breeder may be the individual or company who directed final 141(a)(2) for definition.	al breeding. S	cc PVPA

* see annex B



Annex B to Exhibit E (ESTICA, winterwheat)

Statement with regard to ownership

The variety ESTICA, for which Plant Variety Protection is hereby sought, was developed by Dr.H.C.de Jong, an employee of CEBECO ZADEN B.V., POB 10000, 5250 GA Vlijmen, The Netherlands (the applicant).

By agreement between employees and Cebeco Zaden B.V., all rights to any invention discovery, or development made by the employee while employed by Cebeco Zaden B.V., are assigned to Cebeco Zaden B.V., with no rights of any kind pertaining to the variety ESTICA being retained by the employees.

